Measuring Broadband America

Federal Communications Commission

445 12th Street, SW Washington, DC 20554

18 January 2017

Agenda

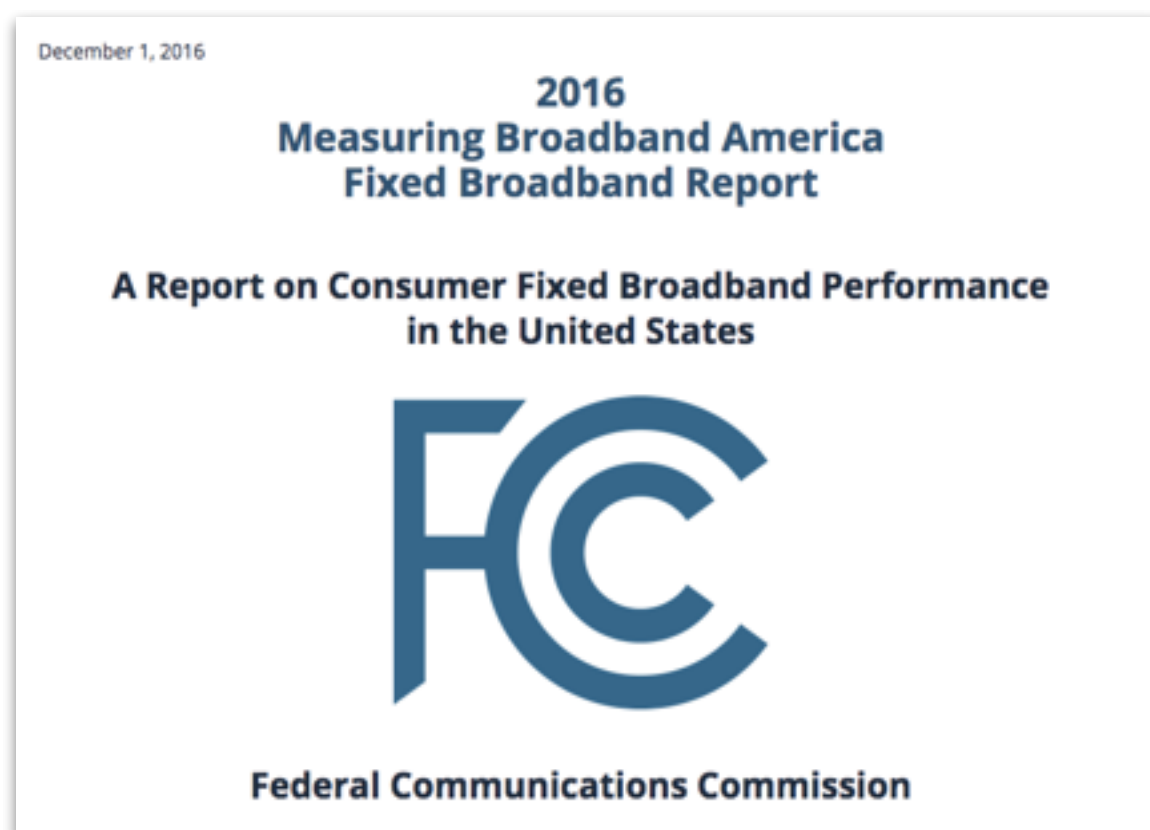Outline of the MBA Fixed Collaborative Discussion Points

✓ Review of 2016

✓ 2017 report work in progress

   ✓ Reporting period (dates)

   ✓ Timeline

✓ New for 2017

   ✓ Health Page Release

Review of 2016

2016 Review

Reviewing processes in 2016.

December 1, 2016

**2016
Measuring Broadband America
Fixed Broadband Report**

**A Report on Consumer Fixed Broadband Performance
in the United States**
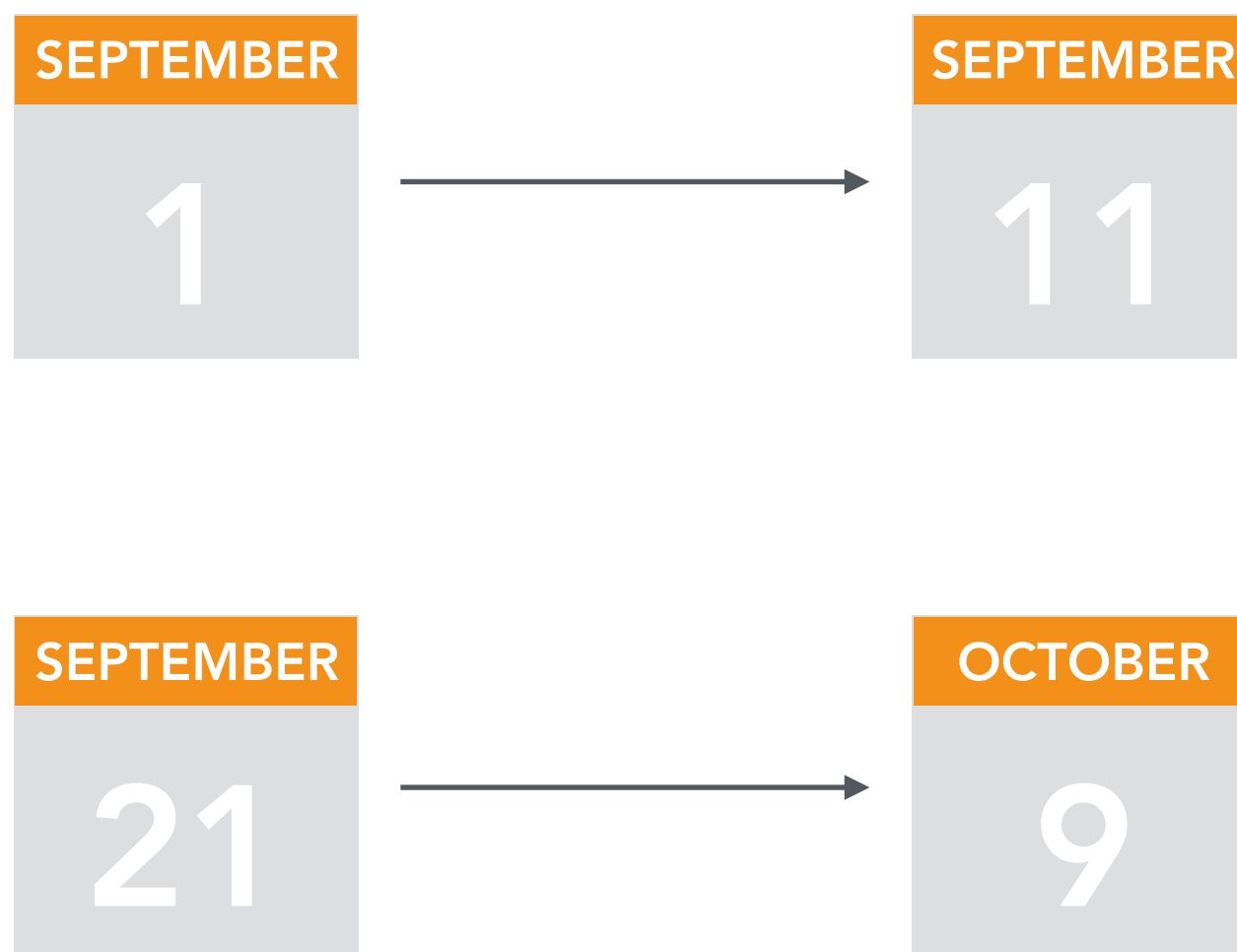
Federal Communications Commission

1. Weighting

2. MBA server status dashboard released

3. Timeline

4. Validation

2017 Work in Progress

MBA 2017 Data Collection Dates

Dates chosen for the MBA 2017 Dates

SEPTEMBER		SEPTEMBER
1	→	**11**

SEPTEMBER		OCTOBER
21	→	**9**

All dates inclusive

Key Dates for MBA Project

Key Process Dates for 2017

May 05, 2017

SamKnows requests ISP subscriber data.

January & February, 2017

Data processing, normalisation and exports. Weighting applied.

May 12, 2017

ISP Subscriber data returned.

March 20, 2017

First draft of charts produced for MBA 2017 report.

May 30, 2017

Sample plan signed off.

New for 2017

Simple | Advanced

Date range

Last 2 days ▾

Downstream speed
(multithread)

Upstream speed
(multithread)
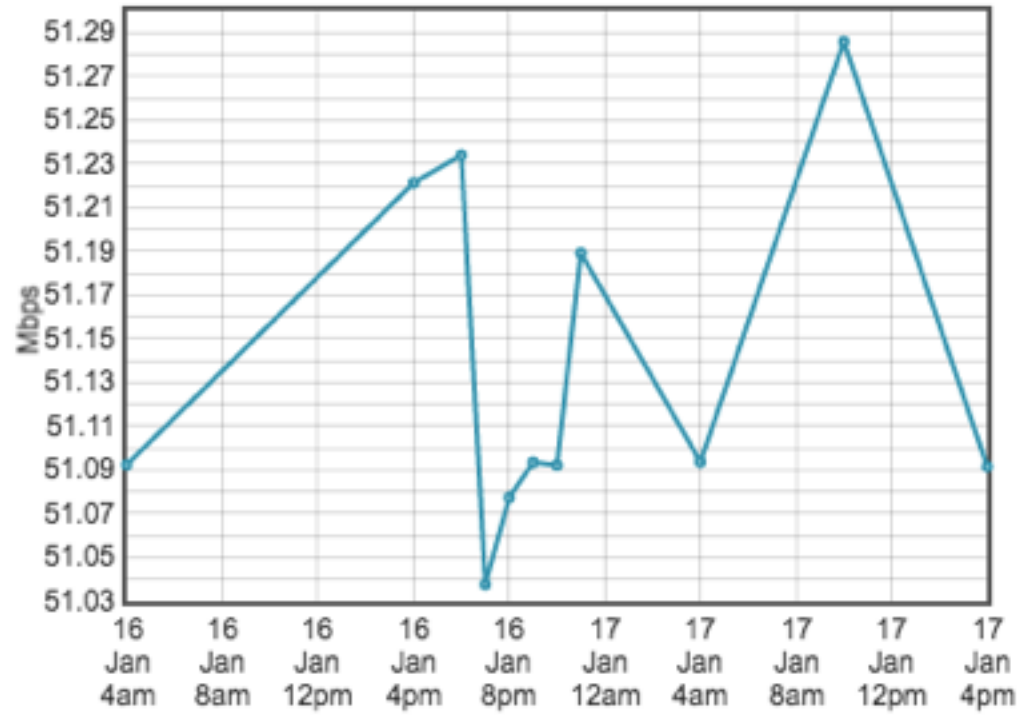
DNS Response Times

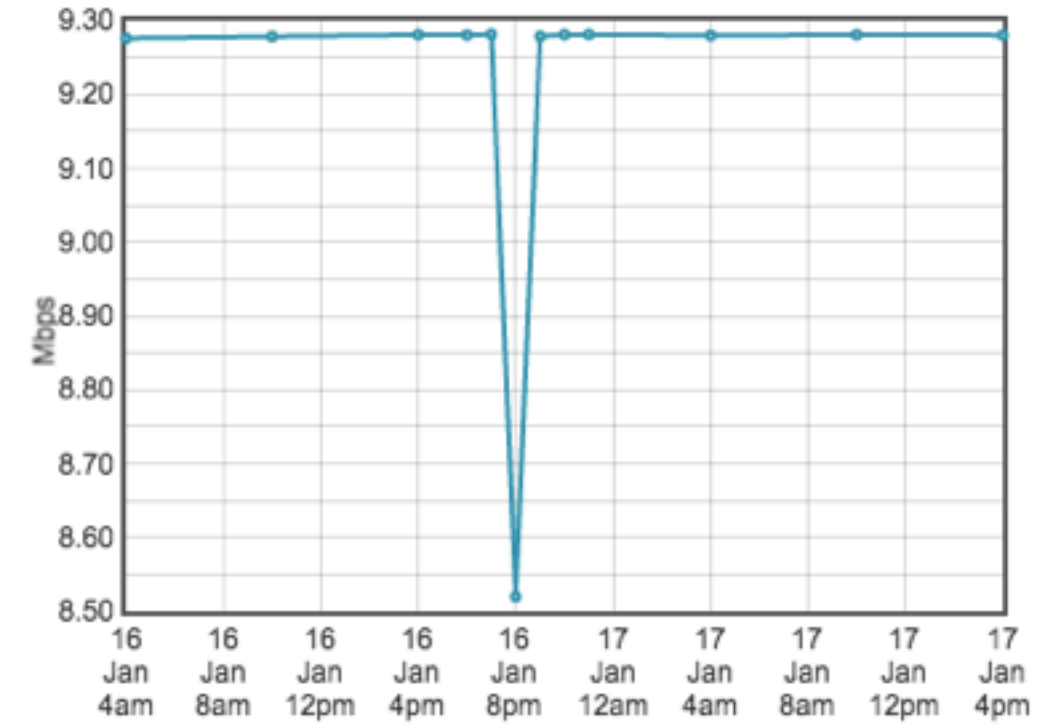Failed DNS Queries

RTP Jitter Up

RTP Jitter Down

UDP Latency

UDP Packet Loss

Website Load Times

Downstream speed (multithread)

Mbps

51.29
51.27
51.25
51.23
51.21
51.19
51.17
51.15
51.13
51.11
51.09
51.07
51.05
51.03

16 Jan 4am | 16 Jan 8am | 16 Jan 12pm | 16 Jan 4pm | 16 Jan 8pm | 17 Jan 12am | 17 Jan 4am | 17 Jan 8am | 17 Jan 12pm | 17 Jan 4pm

Upstream speed (multithread)

Mbps

9.30
9.20
9.10
9.00
8.90
8.80
8.70
8.60
8.50

16 Jan 4am | 16 Jan 8am | 16 Jan 12pm | 16 Jan 4pm | 16 Jan 8pm | 17 Jan 12am | 17 Jan 4am | 17 Jan 8am | 17 Jan 12pm | 17 Jan 4pm

UDP Latency

ms

13.3
13.1
12.9
12.7
12.5
12.3
12.1
11.9
11.7
11.5
11.3
11.1
10.9
10.7
10.5

16 Jan 12am | 16 Jan 8am | 16 Jan 4pm | 17 Jan 12am | 17 Jan 8am | 17 Jan 4pm

UDP Packet Loss

%

1.0
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4
-0.6
-0.8
-1.0

16 Jan 12am | 16 Jan 8am | 16 Jan 4pm | 17 Jan 12am | 17 Jan 8am | 17 Jan 4pm

Simple | Advanced

Date range

Last 2 days ▼

Downstream speed (multithread)

Upstream speed (multithread)

DNS Response Times

Failed DNS Queries

RTP Jitter Up

RTP Jitter Down
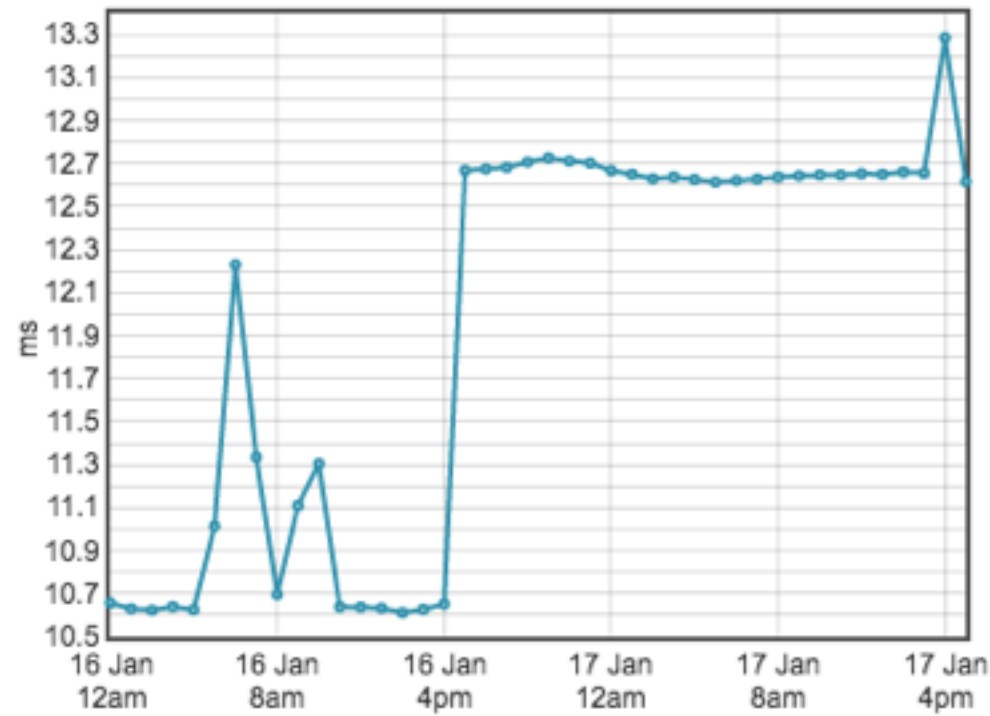
UDP Latency

UDP Packet Loss
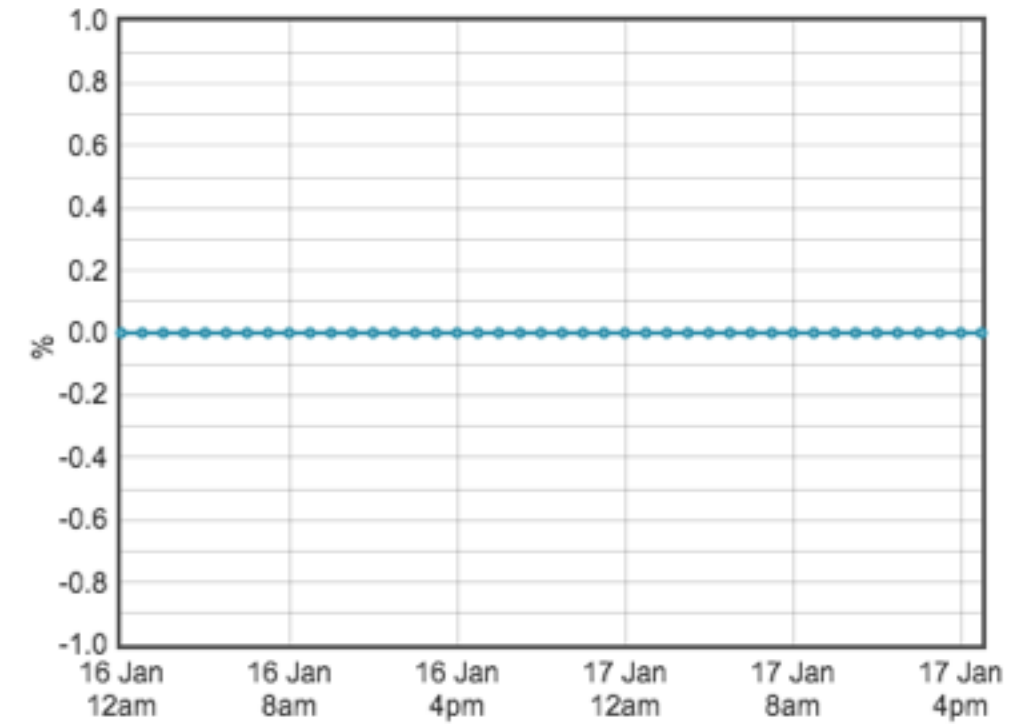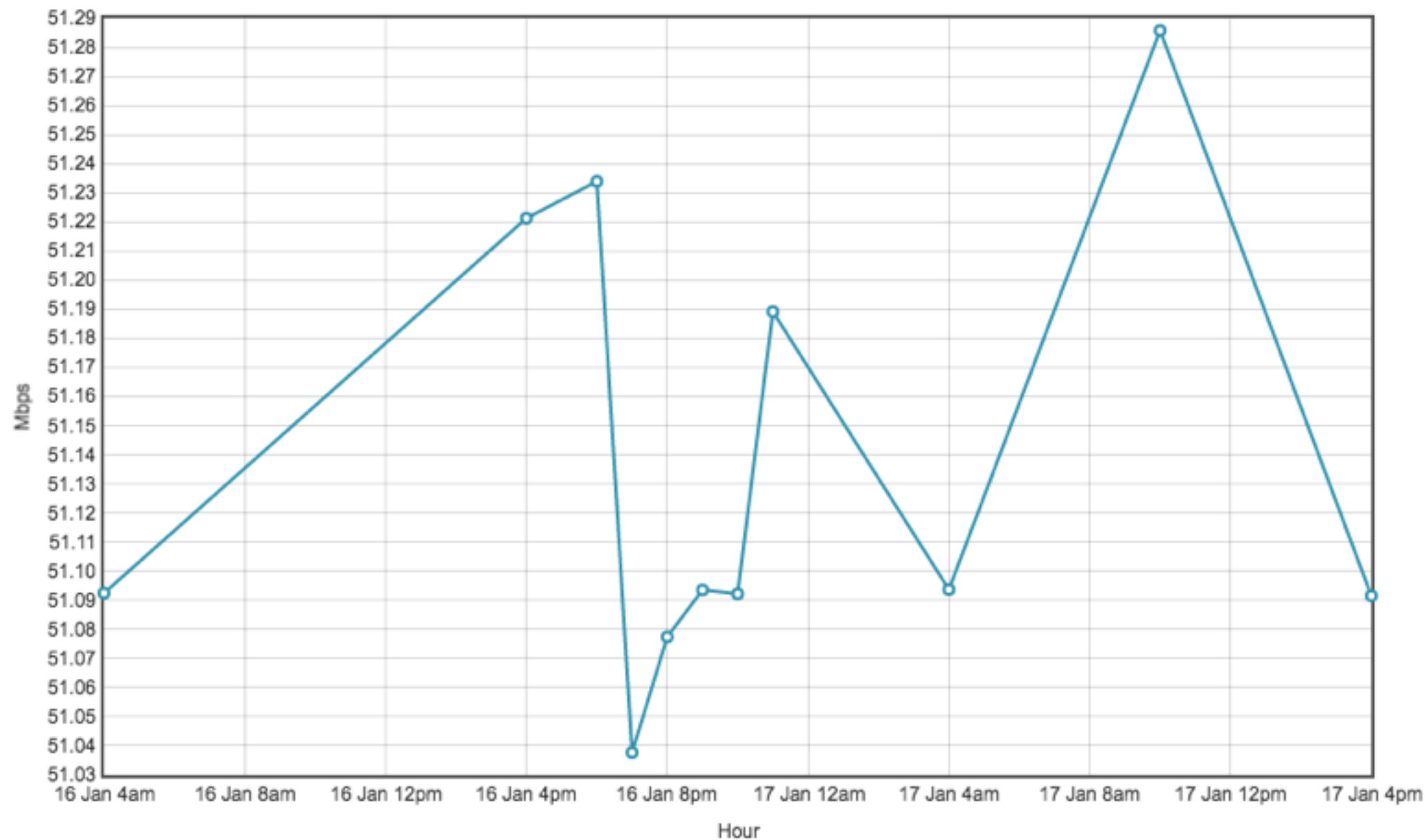
Website Load Times

Downstream speed (multithread)

☐ Always display 0 on y-axis

CSV Export   Hi-Res Image Export

Show 50 ⬍ entries   Search:

Thursday 12th January

You have very good internet today, yay!

Home internet performance over the past 30 days

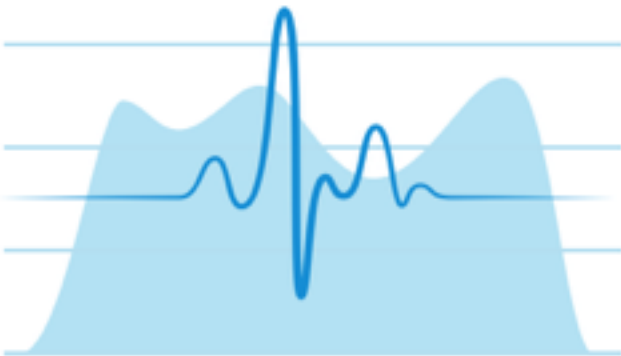| 11	12	13	14	15	16
17	18	19	20	21	22
23	24	25	26	27	28
29	30	31	01	02	03
04	05	06	07	08	09

Internet Health

We believe passionately that this data can be used to not only improve your own internet experience, but also internet connectivity, accessibility and quality for all.

✓ Good   ⚠ Problems   ✗ Faults

DNS ⓘ

Response time

| Very good | 3.15 ms | ✓ |

Requests failed

| Very good | 0 % | ✓ |

YAHOO! ⓘ

Website load time

| Very good | 2.56 s | ✓ |

Google ⓘ

Website load time

| Very good | 0.16 s | ✓ |

Download ⓘ

Advertised	Actual
200 Mbps	224.2 Mbps

| Very good | 107.9 % | ✓ |

Upload ⓘ

Advertised	Actual
100 Mbps	88.4 Mbps

| Problems | 88.4 % | ⚠ |

Latency ⓘ

Data delay

| Very good | 3.61 ms | ✓ |

Amazon ⓘ

Website load time

| Very good | 2.81 s | ✓ |

Packet loss ⓘ

Percentage of lost packets

| Faults | 0 % | ✗ |

SamKnows

Date

Last 2 days ▾

Metrics

Download ▾

Hourly ▾

☑ Split Data ⓘ

Update Analytics

Download

Last 2 days | Hourly

☑ Show 0-Axis

Export CSV   Print   Download

Speed (Mbps) vs Date / Time

228.0
224.0
220.0
216.0
212.0
208.0
204.0

06:00   12:00   18:00   10 Jan   06:00   12:00   18:00   11 Jan

SamKnows.com
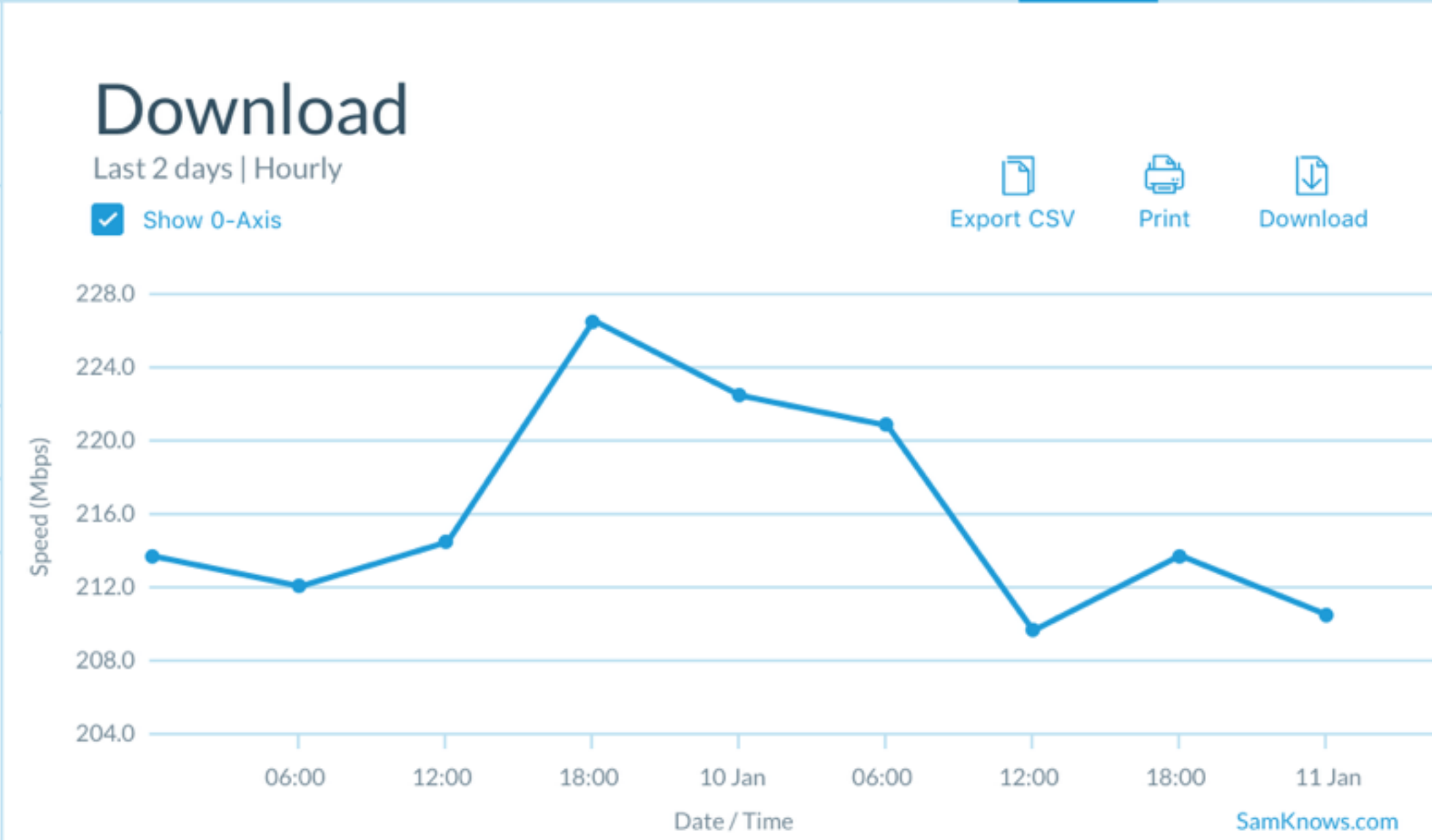
Download

Last 2 days | Hourly

Date / Time	Average	Min	Max	Samples
9 January 2017 01:00	213.3Mbps	213.3Mbps	213.3Mbps	1
9 January 2017 07:00	212.9Mbps	212.9Mbps	212.9Mbps	1

Thresholds

Thresholds applied to the Internet Health Page

Metric	Green	Amber	Red
Download	>=95% of advertised	80% - <95% of advertised	<80% of advertised

Thresholds

Thresholds applied to the Internet Health Page

Metric	Green	Amber	Red
Upload	>=95% of advertised	80% - <95% of advertised	<80% of advertised

Thresholds

Thresholds applied to the Internet Health Page

Metric	Green	Amber	Red
Latency (Terrestrial)	<50ms	50-200ms	>200ms

Thresholds

Thresholds applied to the Internet Health Page

Metric	Green	Amber	Red
Latency (Satellite)	<750ms	750-1100ms	>1100ms

Thresholds

Thresholds applied to the Internet Health Page

Metric	Green	Amber	Red
Packet Loss	<0.5%	0.5% - 2%	>2%

-End-